

A' 1. (Amended) A system for providing data content to a plurality of mobile platforms via at least one satellite having at least one radio frequency (RF) transponder, and for transmitting data content from said mobile platforms via said RF transponder to a ground-based control center[.] , comprising:

an independent mobile system associated with each said mobile platform and carried by each said mobile platform;

a ground-based antenna system associated with said ground-based control center for transmitting encoded RF signals representative of said data content via said RF transponder to said mobile system;

each said mobile system comprising:

a steerable transmit antenna and a steerable receive antenna;

a communications subsystem [responsive to] in communication with each of said antennas for generating baseband video signals and data signals from said encoded RF signals received by said receive antenna, and for producing encoded [RF] signals from data transmissions input by each of a plurality of occupants;

a data content management system for filtering of portions of said data content not addressed to occupants on said mobile platform;

a network for distributing said baseband video signals and said data signals output from said data content management system to said occupants, said network including a plurality of

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access stations whereby individual occupants receive only specific subportions of said baseband video signals and said data signals relating to previous information selections made by said occupants; and

said independent mobile system also operating to transmit said signals input by each of said occupants from each of said access stations, via said RF transponder, to said ground-based antenna system.

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13. (Amended) A system for supplying a plurality of channels of data content to a plurality of independent mobile receiving platforms, wherein each said mobile receiving platform has a plurality of occupants, and for receiving data content transmitted from said mobile receiving platform by said occupants, said system comprising:

a ground based antenna for transmitting encoded radio frequency (RF) signals representing said data content;

at least one satellite having a plurality of RF transponders in orbit over a desired geographical coverage area within which said mobile platforms are travelling, for transponding said encoded RF signals;

a mobile receiving system disposed on each said mobile receiving platform, each said mobile system comprising:

an antenna system including a receive antenna for receiving said encoded RF signals from a designated one of said

RF transponders, and a transmit antenna for transmitting said data content to a designated one of said RF transponders;

[a transmit antenna for transmitting said data content to a designated one of said RF transponders;]

an antenna control system for steering said transmit and receive antennas to track said satellite as said mobile receiving platform is in motion;

a communications system responsive to said encoded RF signals received by said receive antenna for demodulating and decoding said encoded RF signals to produce baseband video signals and data signals;

said communications system including a system for transmitting data content from each of said occupants, via said transmit antenna, to said designated one of said transponders;

a data content management system responsive to said [receiver] communications system for determining which portions of said baseband video signals and which portions of said data signals are to be transmitted to specific ones of a plurality of access stations on said mobile receiving platform for use by said occupants of said mobile receiving platform; and

a network system for routing said portions of said baseband video signals and said data signals to specific ones of said access stations in response to requests by said occupants, such that each

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said occupant receives only a requested portion of said baseband video signals or a requested portion of said data signals.

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21. (Amended) A system for facilitating bi-directional communication between a ground-based control center and a plurality of mobile platforms, of data content via a satellite having a plurality of (RF) transponders, said system comprising:

a ground based antenna for transmitting encoded RF signals from said ground-based control center representing said data content;

a mobile receiving system disposed on each said mobile [receiving] platform, each said mobile receiving system comprising:

a steerable receive antenna for receiving said encoded RF signals from a designated one of said RF transponders of said satellite;

an antenna control system for steering said receive and transmit antennas to track said satellite as said mobile receiving platform is in motion;

a communications system responsive to said encoded RF signals received by said receive antenna for generating output signals representative of live television programming and Internet data;

a server responsive to said communications system for filtering off [said] portions of said live television programming and portions of said Internet data representing data content which have

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not been requested by any of said occupants of its associated said
mobile platform, and filtering off portions of said data content not
directed to any occupant of said [aircraft] mobile platform; and

a network system for routing said portions of said output
signals and said portions of said Internet data to specific ones of
a plurality of access stations in accordance with inputs made at
said access stations by each of said occupants.
